

ViewSonic®

PJ350



Image Size 20" – 300"
DMD XGA Micro Portable Projector

User Guide

Guide de l'utilisateur

Bedienungsanleitung

Guía del usuario

Guia do usuário

Guida dell'utente

Användarhandbok

Käyttöohje

Руководство пользователя

Podręcznik użytkownika

ユーザーガイド

使用説明書

使用说明书

사용 설명서

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For Your Records

Product Name:	ViewSonic PJ350
Model Number:	VPROJ22535-1W
Document Number:	PJ350_UG_284
Serial Number:	_____
Purchase Date:	_____

Product disposal at end of product life

ViewSonic is concerned about the preservation of our environment. Please dispose of this product properly at the end of its useful life. Your local waste disposal company may provide information about proper disposal.

Getting Started

Congratulations on purchasing a ViewSonic PJ350 DLP projector. Save the original box and all packing material for future shipping needs.

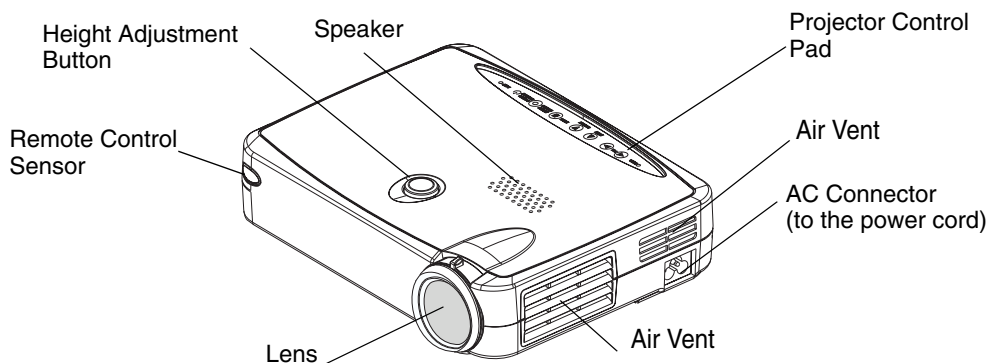


Figure 1: ViewSonic PJ350 Projector

Important Safety Warnings

- Unplug the projector immediately if you detect an abnormal smell or see smoke.
- To reduce the risk of injury to the eyes, do not look directly into the laser light emitted from the aperture on the Remote Control and do not point the laser light into anyone's eyes. This remote control is equipped with a Class IIIA laser that emits radiation.
- Do not look directly into the lighted lens; doing so will cause severe eye injury.
- Never touch the lens or the lamp when hot or warm; doing so can cause a severe burn. Unplug the projector and allow the unit to cool down for 30 minutes before replacing the lamp or storing the projector.
- **Keep small children away from the projector.** Children can be severely burned by the hot lens. Also, children are more likely to look directly into the lens.
- Do not place the projector on a shelf or on any other unstable surface.
- When connecting a computer to the projector, make sure the projector is power-OFF first.
- After using the projector let the cooling fan run for a few minutes before unplugging the projector's power cord.
- Do not attempt to repair the projector yourself; doing so could cause injury.
- Do not operate the projector near water or in a humid area. Do not place drinks on or near the projector; doing so could cause a burn or a short in an electrical circuit.
- Do not block the ventilation openings on the sides of the projector. Place the projector so that there is adequate air circulation.

Package Contents

- ViewSonic PJ350 Projector with lens cap
- Remote Control Unit including 2 AAA batteries
- Power cord (US)
- D-sub RGB to DVI cable (for computer with VGA graphics card)
- DVI to DVI signal cable (for computer with DVI graphics card)
- Composite video cable
- S-Video cable (for S-Video VCR)
- DVI signal cable for HDTV/Component Video
- RCA to Stereo Mini Audio cable
- Mouse cable
- ViewSonic Wizard CD-ROM (includes User Guide in PDF format)
- Quick Start Guide
- Carrying Case

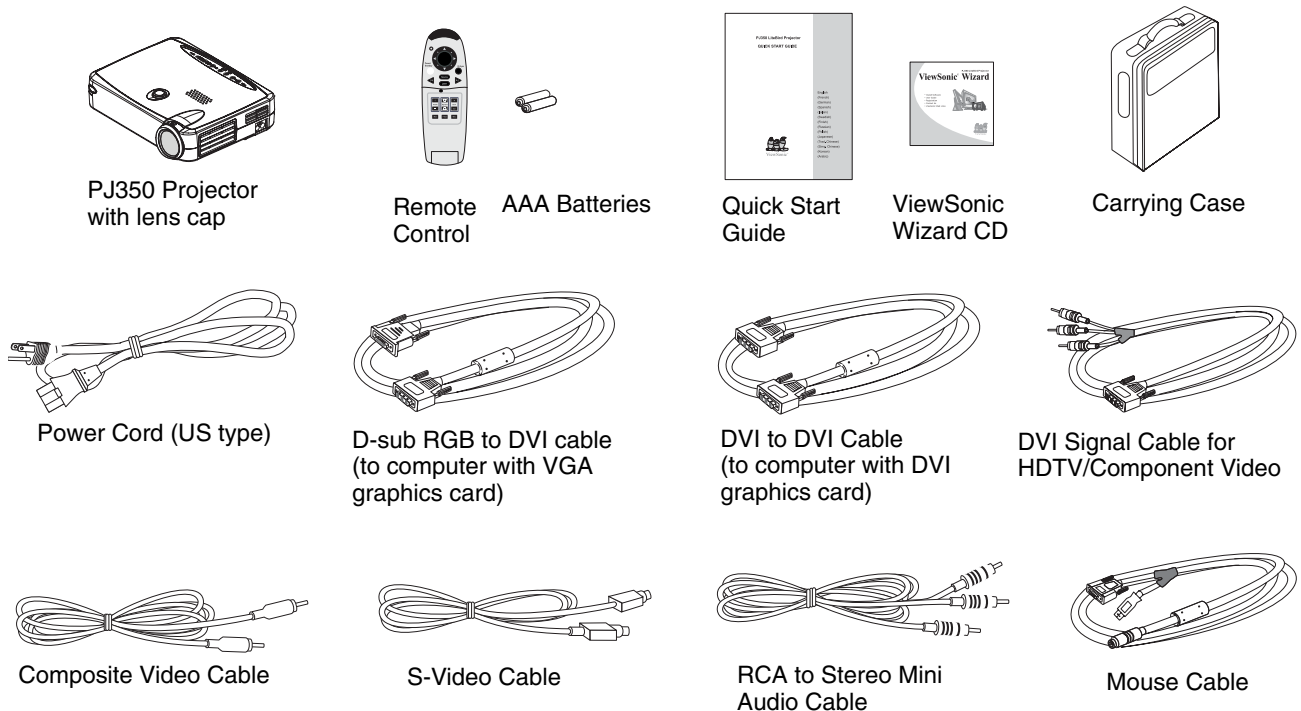


Figure 2: Package Contents

Installation Steps

Before beginning, insert two AAA batteries into the battery compartment of the Remote Control. Verify that the batteries are in the correct (+) and (-) positions.

1 Connect the projector to a properly grounded AC wall outlet.

- Use the supplied power cord.

2 Connect Input and Output Devices.

- See the illustrations on the previous two pages to determine the correct cables for the devices you wish to connect to the projector (computer, video player, DVD player, etc.).
- Analog: To connect a computer with a VGA graphics card, use the D-Sub RGB-to-DVI cable. Digital: To connect a computer with a DVI graphics card, use to DVI-to-DVI cable.
- If you want to use the Remote Control as a mouse, connect the supplied mouse cable from the projector to the mouse port on your computer. The button underneath the Remote Control functions like the left (primary) mouse button, *when the Remote Control cover is closed*.

3 Remove the lens cap.

4 Power ON the Projector.

- Press the Power/Standby button on the projector Control Pad.
- **To power OFF the projector** – Press the Power/Standby button, then when you see the projected message “Power off the lamp?” press the Power/Standby button again. The Lamp LED on the Control Pad will *flash orange* for 30 seconds. When it stops flashing, it is safe to unplug the power cord. After powering the projector off, you must wait 10 minutes to allow it to cool down properly before powering it on again.

5 Position the Projector.

- *Adjust the image size* by placing the projector the appropriate distance from the projection screen. Make sure that the projector is placed on a level and stable surface. See page 20 for more information.
- *Adjust the projection angle* by pressing the Height Adjustment button (on top of the projector) with one hand, while tilting the projector with the other hand. When the desired projection angle is reached, release the Height Adjustment button. This locks the Foot Adjuster (located under the projector) into place. See page 7 for more information.

6 Power ON the input device.

- The projector will automatically detect one or more input devices (computer, video player, etc.) connected to the ports at the back of the projector.
- If more than one device is connected, use the Source button on the Control Pad or the Remote Control to select an input source.
- If “No Signal” appears on the projection screen, check to make sure the input device cables are securely attached to the projector.

7 Adjust the Focus.

Turn the focus ring on the lens to adjust the focus.

8 Adjust the Keystone Control.

- If the top of the projected image is not the same width as the bottom, use the Keystone control.
- You can use the Keystone buttons on the Remote Control or select Keystone from the OnView Image-I menu (computer as source) or the Image-II menu (video device as source).

Connecting Input and Output Devices

The illustration below shows the ports and different configurations for connecting external devices to the ViewSonic PJ350. The Package Contents illustration above shows the appropriate cables for various devices.

NOTE: When using a computer as the input device, set the resolution of your computer's graphics card to 1024 x 768 for the optimal projected image. Refer to the Timing Charts on pages 17-18 to verify that the video signal timing (resolution and refresh rate) of your graphics card is supported by the PJ350 projector.

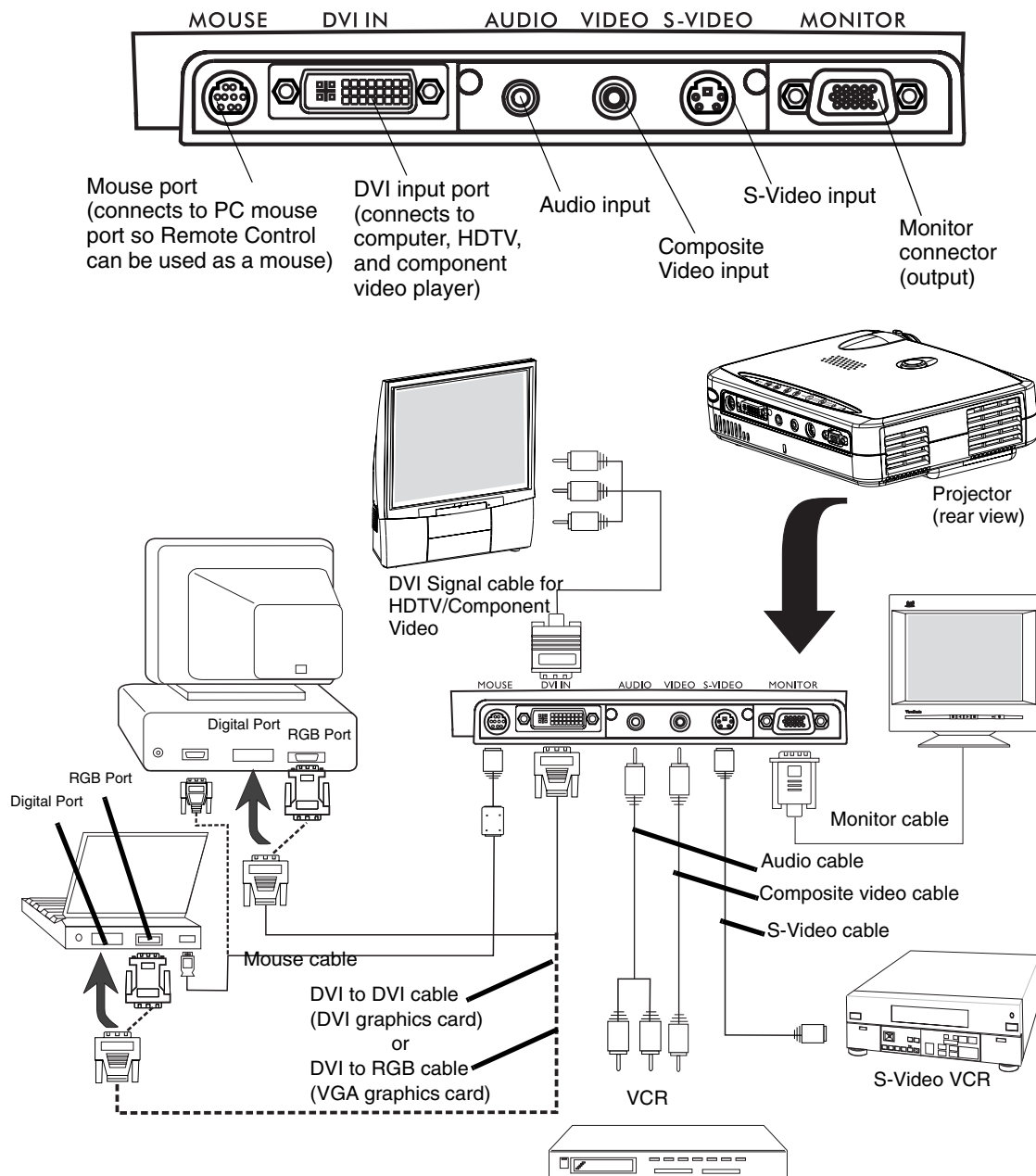


Figure 3: Projector Connection Ports

Positioning the Projector

To adjust the size of the projected image, increase/decrease the distance between the projector and the projection screen.

- Place the projector on a level table-top or other flat surface.
- Use the chart in the table below to determine the distance the projector should be placed from the projection screen in order to achieve the desired image size.

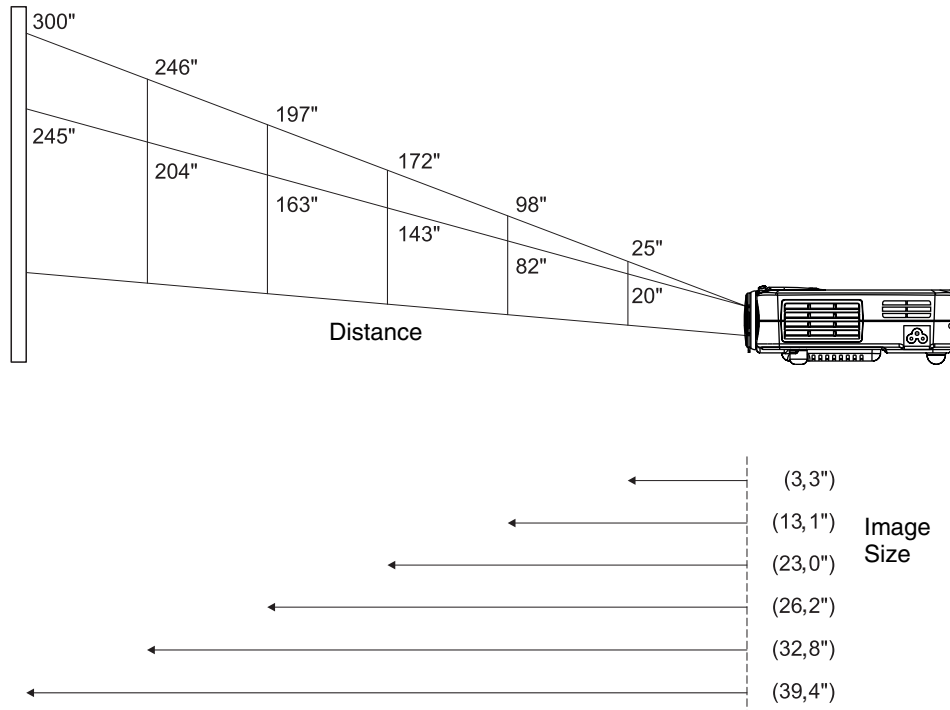


Table 1: Projection Distances

Screen	Maximum	25"	98"	172"	197"	246"	300"
	Minimum	20"	82"	143"	163"	204"	245"
Distance		3.3'	13.1'	23.0'	26.2'	32.8'	39.4'
Screen Size	inches	25"	98"	172"	197"	246"	300"
	Width X Height	15.0 x 20.0	58.8 x 78.4	103.2 x 137.6	118.2 x 157.6	147.6 x 196.8	180.0 x 240.0

Adjusting the Projection Angle

Adjust the projection angle using the Height Adjustment button. See also KEYSTONE under the Image-I Menu, page 12.

To adjust the projection angle, do the following:

- 1 Press the Height Adjustment button with one hand, while tilting the projector with the other hand. The Foot Adjuster will extend accordingly. See Figure 4 below.
- 2 When the desired projection angle is reached, release the Height Adjustment button. This locks the Foot Adjuster into place.

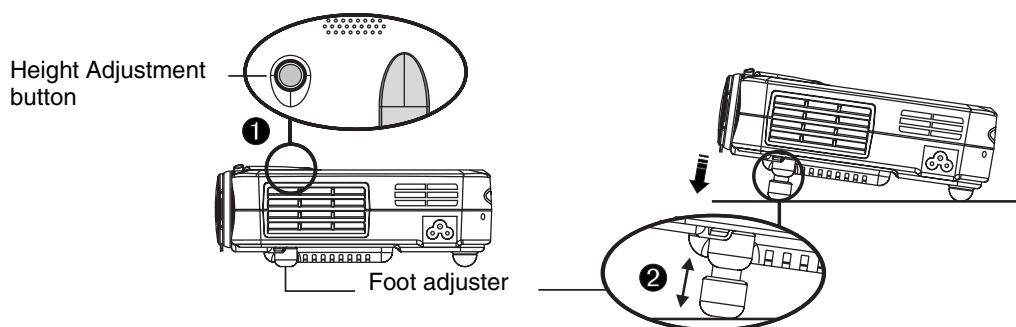
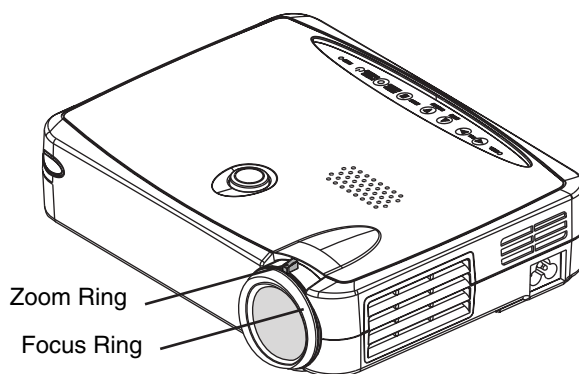


Figure 4: Projection Angle Adjustment

Adjusting the Focus

To adjust the focus, rotate the Focus Ring on the lens as shown below. The projector can focus within the range of 3.3 feet to 39.4 feet (1m to 12m).



Warning Indicators

- When the Lamp LED is solid orange, change the lamp unit. See page 20 for instructions.
- When the Temp (Temperature) LED is solid orange, the projector has overheated. It will automatically shut down. Under normal conditions, the projector can be switched on again. If the problem persists, contact your local dealer for service or contact ViewSonic Customer Support. See page 21.

Using The Projector

Adjusting the Projected Image

You can either use the projector Control Pad or the Remote Control to adjust the appearance of the projected image.

NOTE: If you are using the Remote Control, the Remote Control cover must be *closed*.

To adjust the projected image, do the following:

1 Select a menu.

Press the Menu button, select a menu with the Right/Left Directional Selection (arrow) buttons, and confirm your selection by pressing the Enter/Resync button on the Projector Control Pad (or the button underneath the Remote Control when the Remote Control cover is open). See *Buttons with Special Features* below for more information.

2 Select a control.

Use the Up/Down Directional Selection buttons to select a control option (such as Brightness).

NOTE: If you are using the Control Pad, after you press the Menu button, the Volume, Mute, and Select buttons perform the same functions as the Four Directional Select buttons on the Remote Control.

3 Adjust the selected control.

Use the Left/Right Directional Selection buttons to adjust the selected control.

4 Save your adjustments.

Press the Menu button to save your adjustments and exit.

Buttons with Special Features

Projector Control Pad:

Directional Select buttons

- After pressing the Menu button, the Volume, Mute, and Select buttons perform the same functions as the four Directional Selection buttons on the Remote Control (Left/Right, Up/Down arrows).

Enter/Resync button

- After you have pressed the Menu button, pushing the Enter/Resync button confirms your selection (necessary before you can make adjustments).
- If you have not pushed the Menu button, pressing the Enter/Resync button, automatically synchronizes the projector with connected input devices.

Remote Control:

Enter button (underneath the Remote Control)

- If the Remote Control cover is **closed**, the Enter button functions like the Left mouse button.
- If the Remote Control cover is **open**, pushing the Enter button confirms your selection (necessary before you can make adjustments).

Mouse/Resync button

- If the Remote Control cover is **closed**, the Mouse/Resync button functions like the Right mouse button.
- If the Remote Control cover is **open**, pushing the Mouse/Resync button automatically synchronizes the projector with connected input devices.

Control Pad/Remote Control Buttons

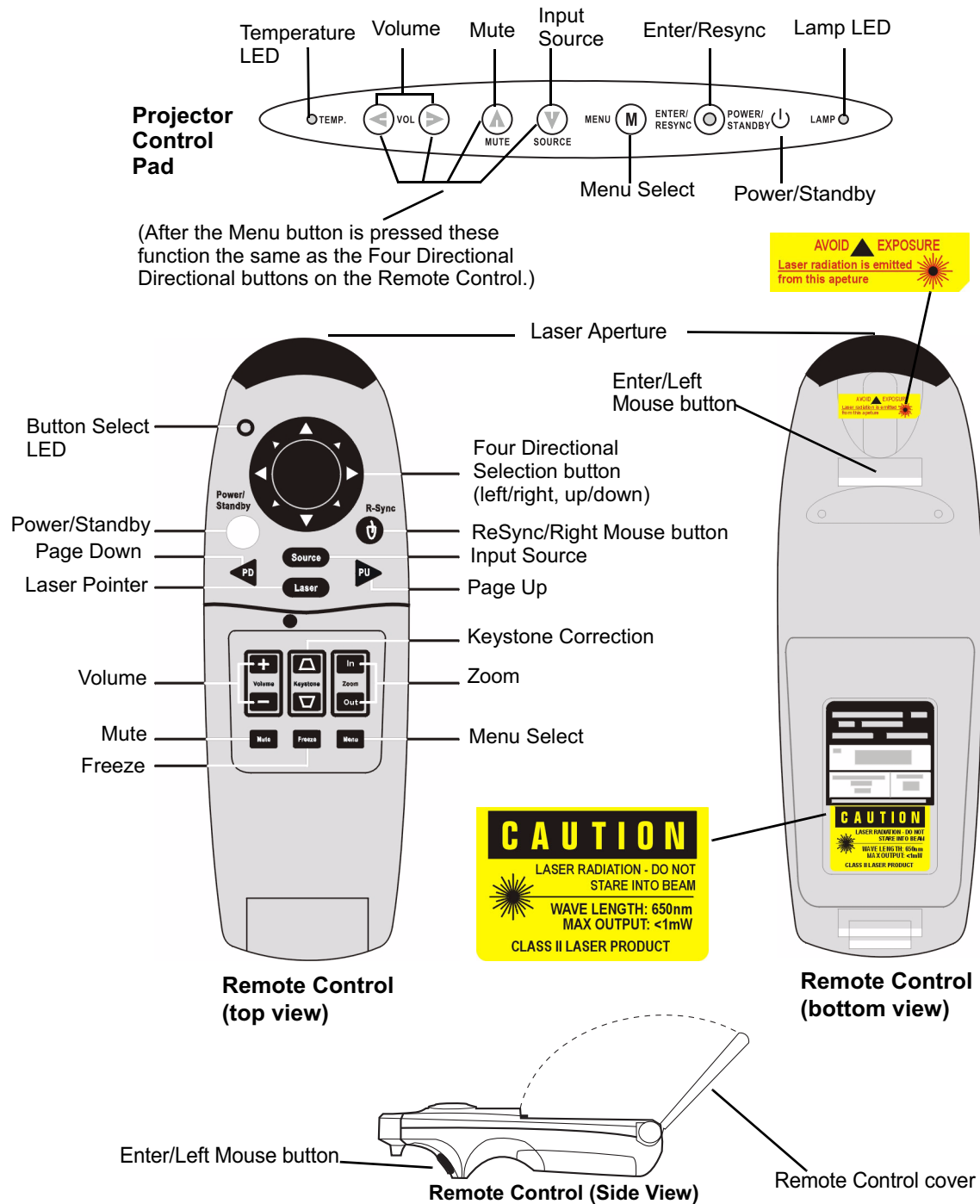


Figure 5: Projector Control Pad and Remote Control

The following buttons are located on the projector Control Pad and on the Remote Control:

Power/Standby Button

Press the Power/Standby button to begin the warm-up period. The Power/standby light blinks orange during warm-up and stays orange when the projector is ready to use.

NOTE: The projector cannot be restarted within 60 seconds after it is turned off because the projector enters a cool-down mode. This is a safety feature.

Menu Button

Use this button to display the OnView menus, which provide several options for adjusting the projected image.

Four Directional Selection Buttons

Remote Control: By tilting your thumb on this button Up and Down you can select a menu option, and by tilting it Left and Right you can adjust the screen image.

NOTE: When the Remote Control is used as a mouse, by placing your thumb on this large tilting your thumb you can move the mouse cursor on-screen.

Projector Control Pad: After pressing the Menu button, the two Volume buttons, Mute button, and Select button perform the same functions as the four Directional Selection button on the Remote Control.

Enter/Right Mouse Button (on Remote Control)

This button, located on the back side of the Remote Control, has two functions:

Enter: When the Remote Control cover is *open*, use the Enter button to confirm that an OnView menu option has been selected. (See Adjusting the Projected Image on page 8.)

Right Mouse Button: When the Remote Control cover is *closed*, use this button as the Right mouse button. **NOTE:** The supplied mouse cable must be first connected to mouse port of the computer you are using.

Enter/Re-Sync Button (on Control Pad)

This button, located on the projector Control Pad, has two functions:

Enter: After pressing the Menu button, use the Enter Re-Sync button to confirm that an OnView menu option has been selected. (See Adjusting the Projected Image on page 8.)

Re-Sync: When the Remote Control cover is *open*, use this button to synchronize the projector with all connected input devices automatically.

Mouse/Resync Button (on Remote Control)

Use the Mouse/Resync button to synchronize the projector with any connected input automatically.

Volume Buttons

Use the Volume buttons to adjust the loudness of the audio output.

Source Button

Use the Source button to choose between video and computer input sources.

NOTE: On the Control Pad of the projector, the two Volume buttons perform the same function as the Left and Right positions of the Directional Select button *after the Menu button is pushed*.

Mute Button (on Remote Control)

Use the Mute button to temporarily silence the audio output.

NOTE: On the Control Pad of the projector, the Mute button functions like the Directional Select Up arrow *after the Menu button is pushed*.

Freeze Button (on Remote Control)

Use the Freeze button to freeze (or hold) an image on screen.

Zoom In/Zoom Out Buttons (on Remote Control--computer mode only)

Use the Zoom In/Out buttons to magnify/diminish the projected image up to a factor of 20 times. When using these functions, you can use the Four Directional Selection button to change the horizontal or vertical positioning of the projected image.

Keystone Buttons (on Remote Control)

Use the Keystone button to correct image distortion that can occur when the projector is tilted (using the Height Adjustment button). Keystone resizes the top or bottom of the projected image until both are the same width.

Page Up/Down Buttons (on Remote Control -- computer mode only)

Use the Page Up and Page Down buttons like the page up/down buttons on a computer keyboard to scroll the projected computer image one screen at a time.

Laser Pointer (on Remote Control)

Use this button to activate the laser pointer for use in presentations.

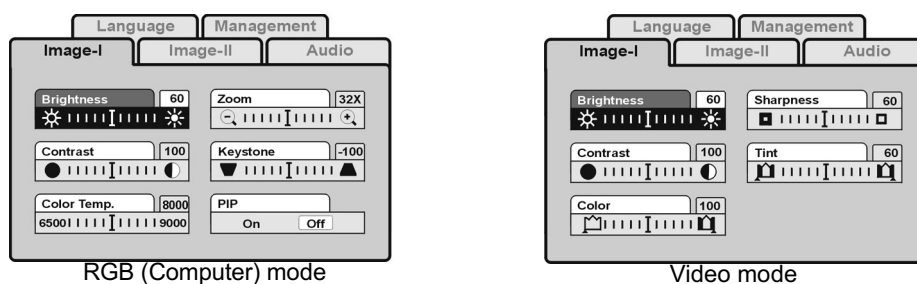
WARNING: To reduce the risk of injury to the eyes, do not look directly into the laser light emitted from the aperture on the Remote Control and do not point the laser light into anyone's eyes. This remote control is equipped with a Class IIIA laser that emits radiation.

OnView Menus

Use the OnView® menus shown below to adjust the projected image. To access and adjust the OnView screens do the following:

- 1 Press the Menu button on the projector control pad or on the remote control to select one of five on-screen menus: Image-I (computer and video modes), Image-II (computer and video modes), Audio, Language, and Management. NOTE: The projector automatically detects if the selected input signal is from a computer or a video device, and displays the appropriate Image-I or Image-II menu.
- 2 Press the up and down Selection buttons on the Remote Control to select a menu option, then use the left and right Selection buttons to adjust your selection.
- 3 To exit an OnView menu, press the Menu button.

Image-I Menu



Brightness adjusts the brightness of the projected image.

Contrast adjusts the contrast of the projected image.

Color Temperature adjusts the color temperature of the screen image, ranging from 6500K to 9000K. The higher the color temperature, the colder the image looks. The lower the color temperature, the warmer the image looks.

Zoom (Computer mode only) magnifies/diminishes the projected image.

Keystone corrects image distortion that may occur when the projector is tilted (using Height Adjustment button). Keystone resizes the top or bottom of the projected image until both are the same width. See page 6 for information about using the Remote Control to correct Keystone distortion.

PIP [Picture in Picture] (Computer mode only) allows you to view two video sources simultaneously (or computer and video source): one that fills the screen and one that appears in a small window. When PIP is active, you can use the four Directional Select arrow buttons to change the position of the PIP window. Select “off” to disable PIP.

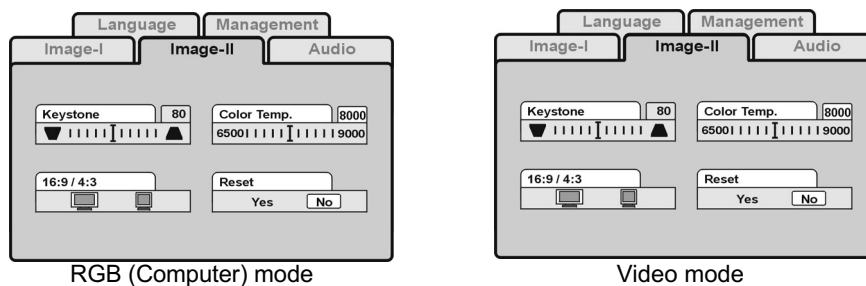
Color (Video mode only) adjusts the color saturation of the projected image, within the range of black and white and fully saturated color.

Press the Left arrow button to decrease color saturation, and press the Right arrow button to increase color saturation.

Sharpness (Video mode only) makes the edges of the projected image appear softer or sharper.

Tint (Video mode only) adjusts the red-green color balance of the projected image.

Image-II Menu



Frequency (Computer mode only) adjusts the display data to match the vertical frequency of your computer's graphics card. If you see a vertical flickering bar, use this control to minimize the flickering.

Tracking (Computer mode only) synchronizes the signal timing of the display with the timing of the computer's graphics card.

16:9 / 4:3 [Aspect Ratio] provides the options of 16:9 or 4:3 aspect ratio. An aspect ratio is the ratio of width to height of the projected image.

H. Position [Horizontal Position] (Computer mode only) moves the projected image to the right or left.

Press the Left arrow button to move the projected image to the left, and press the Right arrow button to move it to the right.

V. Position [Vertical Position] (Computer mode only) moves the projected image up or down.

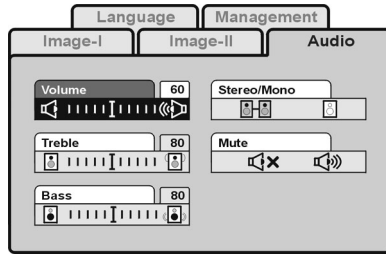
Press the Left arrow button to move the projected image down, and press the Right arrow button to move it up.

Reset returns the display to factory default settings when you choose "Yes."

Keystone corrects image distortion that may occur when the projector is tilted (using height adjustment button). Keystone resizes the top or bottom of the projected image until both are the same width. See "Positioning the Projector" on page 6.

Color Temperature adjusts the color temperature of the projected image, ranging from 6500K to 9000K. The higher the color temperature, the colder the image looks. The lower the color temperature, the warmer the image looks.

Audio Menu



Volume increases or decreases the loudness of the audio output.

Treble adjusts the level of the higher frequencies of the audio output.

Bass adjusts the level of the lower frequencies of the audio output.

Stereo / Mono allows you to select either stereo or mono audio output.

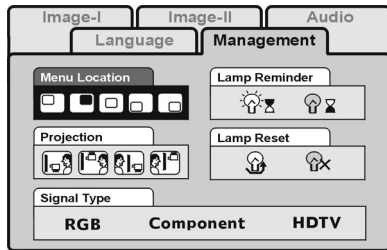
Mute temporarily silences the audio output.

Language Menu



The Language menu allows you to select from nine languages for all on-screen menus: English, German, French, Italian, Spanish, Portuguese, Traditional Chinese, Simplified Chinese, and Japanese.

Management Menu



Menu Location allows you to change the position of the on-screen menus with the Up/Down and Left/Right arrows.

Projection provides four options for projecting an image:

- **Front-Desktop** With this option the projector is in front of the projection screen and is placed a few feet above the floor. This is the factory default setting.
- **Rear-Desktop** With this option the projector reverses the image so it can project the image from behind a rear projection screen.
- **Front-Ceiling** With this option the projector is in front of the projection screen, and the projector is mounted near the ceiling.
- **Rear-Ceiling** With this option the projector reverses the image so it can project the image from behind a rear projection screen, and the projector is mounted near the ceiling.

Lamp Reminder provides a warning message that the lamp unit needs to be replaced.

Lamp Reset sets the lamp usage time to zero. Only do this after replacing the lamp unit.

Signal Type allows you to select the input source: RGB (computer), Component video, or HDTV.

Other Information

Specifications

DLP	Type Pixels Colors	TI 0.7" XGA (1024x768) Digital Micromirror Device (DLP™) 1024 dots x 768 lines 16.7 million
Lens	Type Focal length F Stop Keystone correction	Manual zoom, manual focus f = 28.51 ~ 34.21 mm F = 2.2 ~ 2.4 +/- 16 degree (32 degree)
Display	Image size Throw Distance Aspect Ratio Throw Ratio	20" to 300" inches 1.0 to 12.0 m (3.3 to 39.4 feet) 4:3 and 16:9 2.0 ~ 2.4:1 (ratio of distance from screen to width of projected image)
Lamp	Lamp type Lamp life Replacement lamp	OSRAM (compact high pressure mercury) P-VIP 1500 hours Model Name: RLC-130-07A
Audio	Power Output	2.0 Watts
Input signal	Video Sync Frequency	RGB analog, NTSC M, NTSC 4.43, PAL (B, D, G, H, I, M, N), SECAM (B, D, G, K, K1, L) Separated, Composite, and Sync of Green (SOG) f _H : 15-100 kHz f _V : 43-120 Hz
Compatibility	PC Macintosh ¹ Video	Analog: from VGA to SXGA Digital: from VGA to XGA Analog: up to SXGA (may require Mac adapter) Digital: up to XGA (may require Mac adapter) NTSC M, NTSC 4.43, PAL (B, D, G, H, I, M, N), SECAM (B, D, G, K, K1, L)
Remote range	Distance	5 m (16 feet)
Timing (Resolution / Refresh Rate)	Maximum Recommended	1280 x 1024 @ 85 Hz 1024 x 768 @ 60 Hz
Input ports	RGB DVI-I Video S-video Audio Remote Mouse In	High Density 15-pin D-sub (Loop through-output only) High Density 29-pin DVI-I RCA SVHS DIN Connector 3.5 mm Stereo Mini Jack DIN 8-pin
Power	Voltage Consumption	100-240 VAC, 50/60 Hz (universal) 180 watts (typical) 190 watts (maximum)
Operating conditions	Temperature Humidity	10° to 40°C (50° to 104°F) 10% to 80% (no condensation)
Storage conditions	Temperature Humidity	-20° to 60°C (-4° to 140°F) 10% to 80% (no condensation)
Dimensions	Projector	223mm (W) x 175mm (D) x 52 mm (H) (excluding lens & leg) 8.8" (W) x 6.9" (D) x 2.1" (H)
Weight		1.5 kgs (3.3 lbs)
Regulations		FCC class B, UL, cUL, FDA, CE, TUV/GS, CB, BSMI, VCCI, PSC, PCT

¹ May require a Macintosh adapter

Timing Charts

The following table lists the maximum refresh rates (fV, or vertical frequency) for standard resolutions (timing presets). Not all video cards can operate at these rates. See your graphics card user guide to ensure compatibility. Note that there are separate tables for analog and digital timings.

NOTE: See the next page for Digital Computer Timings.

Table 2: ANALOG Computer Timings (Resolution and Refresh Rate [fV])

Resolution	fH (kHz)	fV (Hz)	Signal mode
640 x 350	31.5	70	Expanded VGA
640 x 350	37.9	85	Expanded VGA
640 x 400	31.5	70	Expanded VGA
640 x 400	37.9	85	Expanded VGA
640 x 480	31.5	60	Expanded VGA
640 x 480	31.5	70	Expanded VGA
640 x 480	37.9	72	Expanded VGA
640 x 480	37.5	75	Expanded VGA
640 x 480	43.3	85	Expanded VGA
720 x 400	31.5	70	Expanded VGA
720 x 400	37.9	85	Expanded VGA
800 x 600	35.2	56	Expanded SVGA
800 x 600	37.9	60	Expanded SVGA
800 x 600	48.1	72	Expanded SVGA
800 x 600	46.9	75	Expanded SVGA
800 x 600	53.7	85	Expanded SVGA
1024 x 768	35.5	43.4	Native XGA
1024 x 768*	48.45	60	Native XGA
1024 x 768	56.5	70	Native XGA
1024 x 768	60.0	75	Native XGA
1024 x 768	68.7	85	Native XGA
1280 x 1024	64.0	60	Compressed SXGA
1280 x 1024	80.0	75	Compressed SXGA
640 x 480	34.98	66.66	Expanded Mac LC 13"
640 x 480	35.0	66.68	Expanded Mac II 13"
832 x 624	49.73	74.55	Expanded Mac 16"
1024 x 768	60.24	75	Native Mac II 19"
1152 x 870	68.67	75.06	Compressed Mac 21"
640 x 480	31.35	60	Expanded Mac G4
640 x 480	68.03	120	Expanded Mac G4
1024 x 768	97.09	120	Native Mac G4
640 x 480	60.0	117	Expanded I-Mac DV
800 x 600	60.0	95	Expanded I-Mac DV
1024 x 768	60.0	75	Native I-Mac DV
1152 x 870	68.49	75	Compressed I-Mac DV
1280 x 960	75.0	75	Compressed I-Mac DV
1280 x 1024	90.9	85	Compressed I-Mac DV
640 x 400	24.83	56.42	Expanded PC 98
640 x 480	31.5	60	Expanded PC 98
640 x 480	31.5	70	Expanded PC 98
640 x 480	24.37	55.37	Expanded FM Town
640 x 480	31.5	60	Expanded FM Town
1280 x 1024	64.0	60	Compressed FM Town

* Indicates Primary Factory Aligned Mode

Timing Charts (continued)

Table 3: DIGITAL Computer Timings (Resolution and Refresh Rate [fV])

Resolution	fH (kHz)	fV (Hz)	Signal mode
640 x 350	31.5	70	Expanded VGA
640 x 350	37.9	85	Expanded VGA
640 x 400	31.5	70	Expanded VGA
640 x 400	37.9	85	Expanded VGA
640 x 480	31.5	60	Expanded VGA
640 x 480	37.9	72	Expanded VGA
640 x 480	37.5	75	Expanded VGA
640 x 480	43.3	85	Expanded VGA
720 x 400	31.5	70	Expanded VGA
720 x 400	37.9	85	Expanded VGA
800 x 600	35.2	56	Expanded SVGA
800 x 600	37.9	60	Expanded SVGA
800 x 600	48.1	72	Expanded SVGA
800 x 600	46.9	75	Expanded SVGA
800 x 600	53.7	85	Expanded SVGA
1024 x 768	35.5	43.4	Native XGA
1024 x 768	48.4	60	Native XGA
1024 x 768	56.5	70	Native XGA
1024 x 768	60.0	75	Native XGA

Troubleshooting

No power

- Make sure power button (or switch) is ON.
- Make sure A/C power cord is securely connected to a power outlet.
- Plug another electrical device (like a radio) into the power outlet to verify that the outlet is supplying proper voltage.

Projector image is too dark or too light

- Adjust the Contrast and Brightness settings.
- Go to the Image-II menu, select Reset, and select “Yes.”

No image appears on screen

- Ensure all cables and power connections are correctly and securely connected as described in the Installation section.
- Make sure the lens cap has been removed and the projector is switched on.
- If the projector is plugged into a power strip (surge protector), make sure the power strip is switched on.
- Ensure that the pins of the connectors are not bent or broken.
- The projector may have overheated. Let the unit cool down. Make sure ventilation openings are clear.
- Ensure that the lamp module has been securely installed. Refer to the Changing the Lamp section.
- Replace the lamp module. See the Customer Support section for contact information.

The screen of your Notebook PC or PowerBook is not displaying an image

If you are using a Notebook PC with Windows 95 or higher:

- The screen of some Notebook PCs may automatically deactivate when a second display (the projector) is in use. Refer to your computer’s manual for instructions on reactivating the Notebook’s screen.

If you are using an Apple® PowerBook®:

- From the Control Panel open the PowerBook Display, and click on Video Mirroring “On.”

Projected image is flickering or unstable

- Use the Tracking control to correct this (Image II-Menu, computer mode).
- Change the monitor color setting from your computer.

Projected image has a vertical flickering bar

- Use the Frequency control to correct this (Image-II Menu, computer mode).
- Check and reconfigure the display mode of your computer’s graphic card to make it compatible with the product.

Projected image is out of focus

- Adjust the Focus Ring on the projector lens.
- Make sure the projection screen is between 3.3 ft. (1 meter) and 39.4 ft. (12m) from the projector.

Stretched, distorted image when displaying a DVD at 16:9 aspect ratio

The projector automatically digitizes a 16:9 DVD aspect ratio and projects an image with a 4:3 aspect ratio. However, if the image appears stretched or distorted, do the following:

- When playing a 16: 9 DVD, select a 4:3 aspect ratio on your DVD player.
- Select 4:3 from the Image-I Menu (video mode only).

No sound

- Adjust the Volume and make sure the Mute button is toggled to OFF.
- Verify that the audio input is properly connected.
- Adjust the volume on the audio source device.

Maintenance

Changing the Lamp

The projector will automatically detect when the lamp needs to be changed. You will see this warning message: “Lamp is running out of standard lifetime. Be sure to replace the lamp as soon as possible.” To order a new lamp unit, see the Customer Support contact information in this guide.

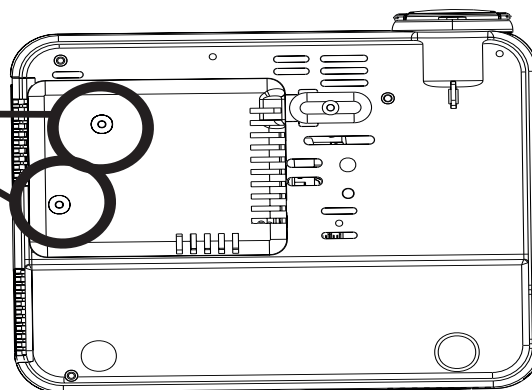
WARNING: Make sure the power cord is disconnected. Before proceeding, wait at least 30 minutes to allow the lamp unit to cool down.

To change the lamp unit:

- 1 Power OFF the projector (see page 4) and let the projector cool down for at least 30 minutes.
- 2 Disconnect the power cord.
- 3 Gently turn the projector over and place it on a soft fabric, such as a towel or blanket.
- 4 Use a screwdriver to remove the lamp cover screws as shown to the right.
- 5 Gently remove the cover.
- 6 Use a screwdriver to remove the lamp unit screws.
- 7 Gently pull the lamp unit out of the projector and disconnect it.
- 8 Gently insert the new lamp unit, replace the lamp unit screw, and replace the lamp cover screws.
- 9 From the OnView Management menu, select Lamp Reset.

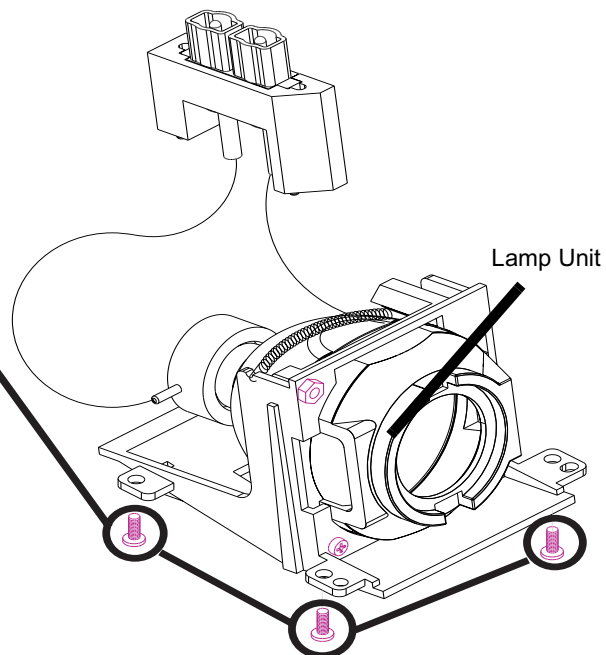
WARNING: To reduce the risk of personal injury, do not drop the lamp unit or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.

Remove cover screws, then remove the cover.



Bottom view of Projector

Remove these Lamp Unit screws



Cleaning the Lens

Clean the lens with a damp, non-abrasive cloth. Apply a lens cleaning solution or a glass cleaning solution to the cloth. Do not spray a cleaning solution directly onto the lens.

Cleaning the Projector

Never attempt to clean the interior of the projector. To clean the exterior of the projector:

- Make sure the projector is cool before cleaning.
- Clean the exterior of the projector with a moist cloth using a mild detergent.

Customer Support

Most of your questions can be answered as follows:

1. For the nearest ViewSonic authorized service provider, look up the ViewSonic Web site for your region or country.
2. For other assistance contact your reseller, or ask your reseller to refer you to a service center.
3. For additional assistance see the contact information listed below.

NOTE: You will be asked to provide a serial number (on the back of the product).

Country/ Region	Web site	T = Telephone F = FAX	Email
United States	viewsonic.com/ support	T: (800) 688-6688 F: (909) 468-1202	service.us@ viewsonic.com
Canada	viewsonic.com/ support	T: (800) 688-6688 F: (909) 468-1202	service.ca@ viewsonic.com
United Kingdom	viewsoniceurope.com	T: 0800 833 648 F: (01293) 643910	service.eu@ viewsoniceurope.com
Europe, Middle East, Baltic countries, and North Africa	viewsoniceurope.com	Contact your reseller	service.eu@ viewsoniceurope.com
Australia and New Zealand	viewsonic.com.au	T: +61 2 9929 3955 F: +61 2 9929 8393	service.au@ viewsonic.com
Singapore/India and Southeast Asia	viewsonic.com.sg	T: 65 273 4018 F: 65 273 1566	service.sg@ viewsonic.com
Other Asia/Pacific countries and Indian Peninsula	viewsonic.com.tw	T: 886 2 2246 3456 F: 886 2 8242 3668	service.ap@ viewsonic.com
South Africa	viewsonic.com/asia	T: 886 2 2246 3456 F: 886 2 8242 3668	service.ap@ viewsonic.com

LIMITED WARRANTY

VIEWSONIC Projector

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, **ViewSonic** will at its sole option repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

How long the warranty is effective:

ViewSonic projectors are warranted for two (2) years for all parts excluding the lamp, two (2) years for all labor, and ninety (90) days for the lamp from the date of the first consumer purchase.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
 - a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - b. Repair or attempted repair by anyone not authorized by **ViewSonic**.
 - c. Any damage of the product due to shipment.
 - d. Removal or installation of the product.
 - e. Causes external to the product, such as electric power fluctuations or failure.
 - f. Use of supplies or parts not meeting **ViewSonic's** specifications.
 - g. Normal wear and tear.
 - h. Any other cause which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact **ViewSonic Customer Support**. You will need to provide your product's serial number.
2. To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized **ViewSonic** service center or **ViewSonic**.
4. For additional information or the name of the nearest **ViewSonic** service center, contact **ViewSonic**.

Limitation of implied warranties:

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Exclusion of damages:

VIEWSONIC'S LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT.

VIEWSONIC SHALL NOT BE LIABLE FOR:

1. DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
3. ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on **ViewSonic** products sold outside of the U.S.A. and Canada, contact **ViewSonic** or your local **ViewSonic** dealer.

Appendix

Power Cord Safety Guidelines

Caution: Use a power cable that is properly grounded. Always use an AC power cord that meets your country's safety standard.

USA..... UL
Canada..... CSA
Germany..... VDE

Switzerland SEV
Britain..... BASE/BS
Japan Electric Appliance Control Act

AC PLUG CORD PRECAUTIONS FOR THE UNITED KINGDOM

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET THEN THE PLUG SHOULD BE CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO AN APPROPRIATE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

WARNING: THIS APPLIANCE MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

Green-and-Yellow: Earth
Blue: Neutral
Brown: Live

If the coloured wires of the mains lead of this appliance do not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:


The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the Earth symbol or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The power cord set for this unit has been enclosed and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set, or if the cord set is not enclosed.

The female receptacle of the cord set must meet CEE-22 requirements and will look like (Figure A1 below):

Figure A1 

For the United States and Canada

In the United States and Canada the male plug is a NEMA5-15 style (Figure A2), UL Listed, and CSA Labeled. For units which are mounted on a desk or table, type SVT or SJT cord sets may be used. For units which sit on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for your unit. Please consult the table below for the selection criteria for power cords used in the United States and Canada.

Figure A2 

Cord Type	Size of Conductors in Cord	Maximum Current Rating of Unit
SJT	18 AWG 16 AWG 14 AWG	10 Amps 12 Amps 12 Amps
SVT	18 AWG 17 AWG	10 Amps 12 Amps

For European Countries

In Europe you must use a cord set which is appropriate for the receptacles in your country. The cord set is HAR-Certified, and a special mark that will appear on the outer sheath, or on the insulation of one of the inner conductors.

If you have any questions concerning which proper power cord to use, please consult with the dealer from whom you have purchased the product.

FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Warning

To assure continued FCC compliance, the user must use grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If a BNC cable is going to be used, use only a shielded BNC(5) cable. Also, any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

CE Conformity



The device complies with the requirements of the EEC directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC Art.5 with regard to "Electromagnetic compatibility," and 73/23/EEC as amended by 93/68/EEC Art.13 with regard to "Safety."